EIGHT

HONOLULU STAR-BUTETIN, MELSESDAY, DECEMBER 5, 1917.

## BOILER INSURANCE HARD TO GET WITHOUT PROPER INSPECTION LAW KS

The importance of substantial re- tem was not attractive enough to warpairs in sugar manufacturing machin- rant the intestment.

ery being carried on carefully and the ... "Recent developments in the manipneed of repair in many of the planta- ulation of low-gride masse lifes may | tions' mills at present to assure steady cause a change of opinion in this ciand continuous operations next sea- rection.

son is emphasized in the report of the committee on "manufacturing mach- Commenting on repairs of sugar inery of the Hawalian Sugar Planters' house machinery, the committee association. The report is submitted states.

by the following committee which has Hind and A. Gartley.

types of machinery: Mills, carrier ufacture of Sugar, it seems to be an and conveying apparatus. Boilers and appropriate subject for discussion. steam generating plants Clarifiers, settling tanks and filters, including ing to the smallest piece of machinery molasses clarification. Evaporating is subject to wear and tear, and thereapparatus and vacuum plans. Crystal fore to replacements, but that portion lizers and centrifugals. apparatus of the factory equipment which does dealing with low grade sugars, each the hardest work, and in which the plantation contributing a letter on its mos serious and expensive breakexperience with the various items Boiler Insurance

the letter of B. Von Damm is quoted and the heaviest and most expensive to the effect that the boiler insurance machinery is situated in this departsituation in these islands was such ment, and therefore the greatest that the limited number of boilers amount of repairs and renewals occur here could yield only sufficient insur. here, and to a much greater extent ance business for one company and than in previous years because of the that the Hartford Steam Boiler and recent improvements in methods of Inspection and Insurance company was not willing to enter the field un. efficiency which have been made. less the planters could guarantee it sufficient business.

The letter also declares that when the matter of boiler insurance was this the committee reports:

"We are convinced that the reason for this decision was the uncertainty as to local conditions and the possibly small volume of business obtainable in the absence of a territorial law making boiler inspection compulsory. as is the case in California and a great many other states.

"In order to secure for the owners of boilers in this territory a definite estimate of what the 'Hartford' could do, we respectfully suggest that the sugar planters enter into an agreement with this company to send down to these islands one of their experts. qualified to make an initial inspection of every boiler owned by them, and Repairs

"Heretofore it has not been the cusinvestigated the subject thoroughly, tom for this committee to comment on J. N. S. Williams, chairman, W. A factory repairs, but since it is con.m.m. Ramsay, E. Kouke, W. G. Hall, R. R. knowledge that these repairs cousttute a large and increasingly mpc. The report deals with the following tant item in the factory cost of "Man j

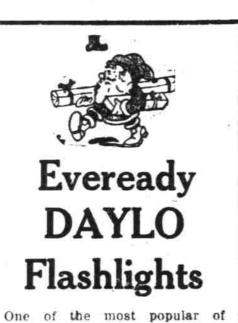
"The entire factory from the build downs occur, is the milling or crush-ing department. The most powerful On the subject of boiler insurance engines, the most complicated gearing milling, and the advances in milling

J.

P

"Repairs are constantly required in all other departments of a factory, but the cost of these repairs remains practically stationary from year to year, placed by the San Francisco agent of consisting mainly of cleaning, renewal the company before the president the of tubes, piping, repairs to brickwork, insurance company could not see its etc., etc., so that for this report it is way clear to enter the territory. On proposed to confine discussion to the repairs in the milling department, because it is in this that a great increase in expense has taken place in late years

"The introduction of the Messchaert drainage groove in 1914 marks the beginning of a notable increase in the extraction of juice obtained by cane crushing mills used in this country. One of the reasons why the Messchaert groove when applied to a canecrushing mill, produces an increase in the extraction of juice from the cane is because it (the groove) so increases the grip on the mat of cane or bagasse, or what amounts to the same thing, so prevents slipping, that the rollers can be set much closer together than when these grooves are not used. This being the case ,it is the company would have to levy in obvious that where the grooves are in use the mill is very liable to be overloaded, and the frequent breakages of mill rollers, mill cheeks and gearing seem to point to the fact that mills AP are at times overloaded to a considerable extent; with close setting of the mills any piece of metal entering the rollers with the cane causes a much greater strain on the machinery thau



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l give

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Sister,

Grand-

mother,

or Woma

Acquain

tance?

to make a report on local conditions and of the approximate premium rate this territory; the planters to pay for such initial inspection.

"Both the company and the sugar planters would thereby be placed in nosition to approach the subject matter intelligently and a resulting arrangement would without question be mutually much more satisfactory.

The expenses of an initial inspec tion may run as follows: Salary of inspector for four months .....\$1,000

Traveling expenses from San Francisco to Honolulu and return .....

300

Traveling expenses between the islands and on the islands at \$10 per day ..... 1,200

\$2,500 Total "We have recently reopened our negotiations with the Hartford Steam Boller Inspection and Insurance company and have inquired as to whether or not they would be willing to make an initial inspection under the conditions outlined above. Their reply should be in our hands within a short time.

"We would like to state that a new boiler manual went into effect on July 1st of this year, superseding all former schedules issued. We are not so far in possession of this new schedule, but understand that rates have had to be vaised generally. We are under impression that every new boiler has to be constructed under the supervision of a licensed inspector, and believe that the provisions of the A. S. M. E. code are made to govern the construction. Furthermore, boilers may be held unsafe and uninsurable at a high pressure and still remain safe and insurable at a lower pressure.

"As soon as we are in possession of further communications from the Hartford Steam Boller Inspection and Insurance So, we will supply you with copies thereof."

Your committee recommends that the trustees of this association give due consideration to this important attention to the matter of factory rematter with a view to establishing a system of boller inspection and insur-ance especially applicable to the steam able bints and information may result boilers of sugar factories in operation therefrom." in this territory,

Becond Sugars

On the subject of crystallizers and centrifugals and apparatus dealing with low grade sugars the committee reports as follows:

"For several years past a great deal of attention has been given to the problems connected with the manipulation of second sugars and after-products, as it is realized that the bulk of factory losses now occur in the final molasses.

"During the period 1898-1902 when most of the very large factories now in operation in this territory were designed and constructed, crystallizers for handling low-grade massecuites were included in the equipments, but a number of factories which were in operation at that time were not so equipped, and it has been a matter of speculation amongst those interested as to why it was that crystalizers 'ot handling second massecultes were not generally adopted at that time, since it must be conceded that for cleanitouss, mechanical efficiency and speed of work, crystallizers and adjuncts are quite superior to the clder methods of manipulating second and low-grade sugars in open coolers and storage.

when the rollers are set further apari, and closer setting of the rollers demands greater power in the driving engine, which in turn produces a greater strain on the gearing, and as a consequence a greater liability to breakdown of a serious nature.

"In consequence of experience gained during the last few years it has been found necessary to alter and greatly strengthen the design of mill checks, intermediate gearing and the size of roller shafts and power of driv-

ing engine, while different qualities of material in cast iron and steel for the rollers themselves have been success. fully experimented with.

"It is hardly necessary to point out that excessive repairs in the milliag equipment such as have been the recent experience of some factories, are due to the endeavor to obtain increased yield of juice from the cane with weak and inadequate equipment of olds design; the expense attending 66 current and permanent repairs in such cases added to the loss of time the second se and delays in harvesting the crop, sometimes more than offset the gain made during the season by the increased quantity of juice extracted. and there are cases in which it is an open question whether or not it be better financial policy to scrap an entire milling plant rather than attempt to add on or build up an old design by stronger parts or replacements.

"It is of the first importance that steady and continuous operation of the machinery in the milling department of a sugar factory be assured. and this can only be done by substantial repairs carefully carried out.

"This committee in thus drawing pairs does so for the purpose of invit

Boys The

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No. 2602 Vulcanized \$1.00 Fiber, 14x5" ...... Renewal Battery, 30c. No 2604 Vulcanized \$1.20 Fiber, size 11/2x61/2"... No. 2612 Vulcanized \$1.40 Fiber, size 11/2x81/2"...

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No. 6962, size 34 x214 x3 \$1.00 Renewal battery, 40c.

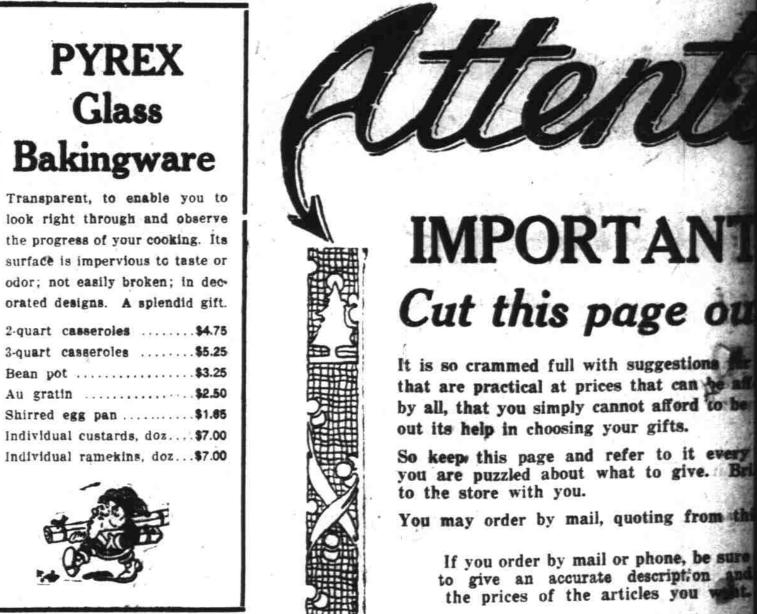
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tanks or cisterns. "The probable answer to this question is that to alter and rearrange a factory of the older type to use mys tallizers is a very expensive piece cf work, involving a large amount of reconstruction, as well as the installetion of new and costly equipment and machinery, and when this expenditure was considered in competion with the anticipated gain in reluns of eugar the balance in favor of change of ave-





Shirred egg pan .....\$1.85 Individual custards, doz .... \$7.00 Individual ramekins, doz ... \$7.00